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34261 tcgtaagtat agcaaagcca cccctcgcgg atacaaagta aaaggcacag gagaataaaa
34321 aatataatta tttctctgct gctgttcagg caacgtcgcc cccggtccct ctaaatacac
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34561 aaagtacagt ttcacttccg caatcccaac aagcgtcact tcctctttct cacggtacgt
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34741 caccattcca tctataaggt atattattga tgatg
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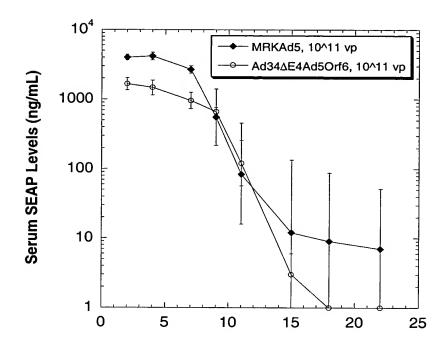


FIG. 4

Vaccine	Monkey	P	re	W	k 4	W	k 8	Wk	24	Wk	28	Wi	¢ 36
Wk 0, 4, 24	ID	Mock	Gag*	Mock	Gag	Mock	Gag	Mock	Gag	Mock	Gag	Mock	Gag
MRKAd5gag, 10^11 vp	00C018	1	5	13	1025	0	824	8	756	0 3 0	474	0	383
MRKAd5gag, 10^11 vp	00C034	0	4	5	219	5	404	3	445		339	0	216
MRKAd5gag, 10^11 vp	00C058	4	4	3	1086	0	440	4	1439		2338	0	940
Ad34ΔE1gagΔE4Ad5Orf6, 10^11 vp	00D038	6	8	5	111	1	301	0	224	1	536	0 0	233
Ad34ΔE1gagΔE4Ad5Orf6, 10^11 vp	00D042	6	30	4	89	4	264	1	73	0	181		69
Ad34ΔE1gagΔE4Ad5Orf6, 10^11 vp	00D066	3	18	1	118	1	816	0	429	0	439		273

Vaccine	Monk ID	•	D4 ⁺ CD3 ⁺ mphocytes	•	
		Mock	Gag ^a	Mock	Gag ^a
Ad34∆E1gag∆E4Ad5Orf6	00D038	22	154	130	450
	00D042	32	118	96	171
	00D066	12	238	150	442

Sequence of the open reading frame for FL-gag (human codon optimized)

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 661 ttagtgaacc gtcagatcgc ctggagacgc catccacgct gttttgacct ccatagaaga
 721 caccgggacc gatccagcct ccgcggccgg gaacggtgca ttggaacgcg gattccccgt
 781 gccaagagtg agatctaccA TGGGTGCTAG GGCTTCTGTG CTGTCTGGTG GTGAGCTGGA
 841 CAAGTGGGAG AAGATCAGGC TGAGGCCTGG TGGCAAGAAG AAGTACAAGC TAAAGCACAT
 901 TGTGTGGGCC TCCAGGGAGC TGGAGAGGTT TGCTGTGAAC CCTGGCCTGC TGGAGACCTC
 961 TGAGGGGTGC AGGCAGATCC TGGGCCAGCT CCAGCCCTCC CTGCAAACAG GCTCTGAGGA
1021 GCTGAGGTCC CTGTACAACA CAGTGGCTAC CCTGTACTGT GTGCACCAGA AGATTGATGT
1081 GAAGGACACC AAGGAGGCCC TGGAGAAGAT TGAGGAGGAG CAGAACAAGT CCAAGAAGAA
1141 GGCCCAGCAG GCTGCTGCTG GCACAGGCAA CTCCAGCCAG GTGTCCCAGA ACTACCCCAT
1201 TGTGCAGAAC CTCCAGGGCC AGATGGTGCA CCAGGCCATC TCCCCCCGGA CCCTGAATGC
1261 CTGGGTGAAG GTGGTGGAGG AGAAGGCCTT CTCCCCTGAG GTGATCCCCA TGTTCTCTGC
1321 CCTGTCTGAG GGTGCCACCC CCCAGGACCT GAACACCATG CTGAACACAG TGGGGGGCCA
1381 TCAGGCTGCC ATGCAGATGC TGAAGGAGAC CATCAATGAG GAGGCTGCTG AGTGGGACAG
1441 GCTGCATCCT GTGCACGCTG GCCCCATTGC CCCCGGCCAG ATGAGGGAGC CCAGGGGCTC
1501 TGACATTGCT GGCACCACCT CCACCCTCCA GGAGCAGATT GGCTGGATGA CCAACAACCC
1561 CCCCATCCCT GTGGGGGAAA TCTACAAGAG GTGGATCATC CTGGGCCTGA ACAAGATTGT
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1801 GAAGGCCCTG GGCCCTGCTG CCACCCTGGA GGAGATGATG ACAGCCTGCC AGGGGGTGGG
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1921 CACCATCATG ATGCAGAGGG GCAACTTCAG GAACCAGAGG AAGACAGTGA AGTGCTTCAA
1981 CTGTGGCAAG GTGGGCCACA TTGCCAAGAA CTGTAGGGCC CCCAGGAAGA AGGGCTGCTG
2041 GAAGTGTGGC AAGGAGGGCC ACCAGATGAA GGACTGCAAT GAGAGGCAGG CCAACTTCCT
2101 GGGCAAAATC TGGCCCTCCC ACAAGGGCAG GCCTGGCAAC TTCCTCCAGT CCAGGCCTGA
2161 GCCCACAGCC CCTCCCGAGG AGTCCTTCAG GTTTGGGGAG GAGAAGACCA CCCCCAGCCA
2221 GAAGCAGGAG CCCATTGACA AGGAGCTGTA CCCCCTGGCC TCCCTGAGGT CCCTGTTTGG
2281 CAACGACCCC TCCTCCCAGT AAaataaagc ccgggcagat ctgatctgct gtgccttcta
2341 gttgccagcc atctgttgtt tgcccctccc ccgtgccttc cttgaccctg gaaggtgcca
2401 ctcccactgt cctttcctaa taaaatgagg aaattgcatc gcattgtctg agtaggtgtc
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2521 gcaggcatgc tggggatgcg gtgggctcta
SEQ ID NO: 2
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	ttggcagtac					
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901	CCGCGAGGCA	ATTORNOOTH	TGGGTGCCGC	CAAGAAGCTG	CAGCCTGCAC	AGACAGCCGC
1021	CAAGAACCTC	ATCATCTTCC	TGGGCGATGG	GATGGGGGTG	TCTACGGTGA	CAGCTGCCAG
1021	GATCCTAAAA	GGGCAGAAGA	AGGACAAACT	GGGGCCTGAG	ATACCCCTGG	CCATGGACCG
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	AGCCACAGCC					
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	GAATCGGGCC					
1321	CGCCTCGCCA	GCCGGCACCT	ACGCCCACAC	GGTGAACCGC	AACTGGTACT	CGGACGCCGA
1381	CGTGCCTGCC	TCCGCCCGCC	AGGAGGGGTG	CCAGGACATC	GCTACGCAGC	TCATCTCCAA
1441	CATGGACATT	GACGTGATCC	TAGGTGGAGG	CCGAAAGTAC	ATGTTTCGCA	TGGGAACCCC
1501	AGACCCTGAG	TACCCAGATG	ACTACAGCCA	AGGTGGGACC	AGGCTGGACG	GGAAGAATCT
1501	GGTGCAGGAA	TGGCTGGCGA	AGCGCCAGGG	TGCCCGGTAT	GTGTGGAACC	GCACTGAGCT
1621	CATGCAGGCT	TCCCTGGACC	CGTCTGTGAC	CCATCTCATG	GGTCTCTTTG	AGCCTGGAGA
1081	CATGAAATAC	GAGATCCACC	GAGACTCCAC	ACTGGACCCC	TCCCTGATGG	AGATGACAGA
1/41	GGCTGCCCTG	CGCCTGCTGA	GCAGGAACCC	CCGCGGCTTC	TTCCTCTTCG	TGGAGGGTGG
1801	TCGCATCGAC	CATGGTCATC	ATGAAAGCAG	GGCTTACCGG	GCACTGACTG	AGACGATCAT
1801	GTTCGACGAC	GCCATTGAGA	GGGCGGCCA	GCTCACCAGC	GAGGAGGACA	CGCTGAGCCT
1921	CGTCACTGCC	GACCACTCCC	ACGTCTTCTC	CTTCGGAGGC	TACCCCCTGC	GAGGGAGCTC
1981	CATCTTCGGG	CTGGCCCCTG	GCAAGGCCCG	GGACAGGAAG	GCCTACACGG	TCCTCCTATA
2041	CGGAAACGGT	CCAGGCTATG	TGCTCAAGGA	CGGCGCCCGG	CCGGATGTTA	CCGAGAGCGA
2101	GAGCGGGAGC	CCCGAGTATC	GGCAGCAGTC	AGCAGTGCCC	CTGGACGAAG	AGACCCACGC
2161	AGGCGAGGAC	GTGGCGGTGT	TCGCGCGCGG	CCCGCAGGCG	CACCTGGTTC	ACGGCGTGCA
2221	GGAGCAGACC	TTCATAGCGC	ACGTCATGGC	CTTCGCCGCC	TGCCTGGAGC	CCTACACCGC
	CTGCGACCTG					
2341	ccccgcgttg	cttcctctgc	tggccgggac	atcaggtggc	ccccgctgaa	ttggaatcga
2401	tcagaattca	gtcgacgata	tctgatcacg	atctgatctg	ctgtgccttc	tagttgccag
2461	ccatctgttg	tttgcccctc	ccccgtgcct	tccttgaccc	tggaaggtgc	cactcccact
2521	gtcctttcct	aataaaatga	ggaaattgca	tcgcattgtc	tgagtaggtg	tcattctatt
2581	ctggggggtg	gggtgggca	gcacagcaag	ggggaggatt	gggaagacaa	tagcaggcat
2641	gctggggatg	cggtgggctc	ta			

Pac1

	~~~~~~	~~			
1	TTCTTAATTA	ACATCATCAA	TAATATACCT	TATTTTGGAT	TGAAGCCAAT
	AAGAATTAAT	TGTAGTAGTT	ATTATATGGA	ATAAAACCTA	ACTTCGGTTA
51	ATGATAATGA	GGGGGTGGAG	TTTGTGACGT	GGCGCGGGC	GTGGGAACGG
				CCGCGCCCG	
	111011111101	CCCCACCIC	mmchc10ch		CACCCIICC
101	CCCCCCTCAC	CTACTACTCT	GGCCCA A CTC	TGATGTTGCA	A CECECOCO
TOT			_		
	CCGCCCACTG	CATCATCACA	CCGCCTTCAC	ACTACAACGT	TCACACCGCC
1 = 1			GEGGG33333		~~~~~~
151				TGACGTTTTT	
	TTGTGTACAT	TCGCTGCCTA	CACCGTTTTC	ACTGCAAAAA	CCACACGCGG
201				GGTTTTAGGC	
	CCACATGTGT	CCTTCACTGT	TAAAAGCGCG	CCAAAATCCG	CCTACAACAT
251	GTAAATTTGG	GCGTAACCGA	GTAAGATTTG	GCCATTTTCG	CGGGAAAACT
	CATTTAAACC	CGCATTGGCT	CATTCTAAAC	CGGTAAAAGC	GCCCTTTTGA
301	GAATAAGAGG	AAGTGAAATC	TGAATAATTT	TGTGTTACTC	ATAGCGCGTA
	CTTATTCTCC	TTCACTTTAG	ACTTATTAAA	ACACAATGAG	TATCGCGCAT
351	ATATTTGTCT	AGGGCCGCGG	GGACTTTGAC	CGTTTACGTG	GAGACTCGCC
				GCAAATGCAC	
401	САССТСТТТТ	<b>ТСТСАССТСТ</b>	<b>ጥጥሮሮሮሮሮ</b> ሞጥ	CCGGGTCAAA	СТТССССТТТ
				GGCCCAGTTT	
	0100110111111		.nnioococini	OCCCLICITI	CIMCCOCIMM
451	<b>ΤΑΤΤΑΤΤΑΤΑ</b>	GGCGGCCGCG	<b>ልጥ</b> ሮሮልጥጥሮሮል	TACGTTGTAT	ССУФУФСУФУ
				ATGCAACATA	
	AIAAIAAIAI	CCGCCGGCGC	IAGGIAACGI	AIGCAACAIA	GGIAIAGIAI
501	<b>እ</b> መ <b>አመሮመአሮ</b> አመ		mc a mc mc co a a	CATTACCGCC	3.0000003.03.00
301	=	<del>-</del>		GTAATGGCGG	
	TATACATGTA	AATATAACCG	AGTACAGGTT	GTAATGGCGG	TACAACTGTA
551	_			ATTACGGGGT	
	ACTAATAACT	GATCAATAAT	TATCATTAGT	TAATGCCCCA	GTAATCAAGT
<u></u>					
601	TAGCCCATAT	ATGGAGTTCC	GCGTTACATA	ACTTACGGTA	AATGGCCCGC
	ATCGGGTATA	TACCTCAAGG	CGCAATGTAT	TGAATGCCAT	TTACCGGGCG
651	CTGGCTGACC	GCCCAACGAC	CCCCGCCCAT	TGACGTCAAT	AATGACGTAT
	GACCGACTGG	CGGGTTGCTG	GGGGCGGTA	ACTGCAGTTA	TTACTGCATA
701	GTTCCCATAG	TAACGCCAAT	AGGGACTTTC	CATTGACGTC	AATGGGTGGA
				GTAACTGCAG	· ·
751	GTATTTACGG	TAAACTGCCC	ACTTGGCAGT	ACATCAAGTG	ТАТСАТАТСС
<b>-</b>				TGTAGTTCAC	
				LULACIACAC	

801			GTCAATGACG CAGTTACTGC	
851		_	ATGGGACTTT TACCCTGAAA	
901			CCATGGTGAT GGTACCACTA	
951			GACTCACGGG CTGAGTGCCC	
1001			GTTTTGGCAC CAAAACCGTG	
1051			CCCCATTGAC GGGGTAACTG	
1101			AGCAGAGCTC TCGTCTCGAG	
1151			CTGTTTTGAC GACAAAACTG	
1201			GGGAACGGTG CCCTTGCCAC	
1251			CATGGGTGCT GTACCCACGA	
1301			AGAAGATCAG TCTTCTAGTC	
1351	<del>-</del>		ATTGTGTGGG TAACACACCC	
1401				GCAGGCAGAT CGTCCGTCTA
1451				GAGCTGAGGT CTCGACTCCA
1501				GAAGATTGAT CTTCTAACTA
1551				AGCAGAACAA TCGTCTTGTT

1601			AGGCTGCTGC TCCGACGACG	
1651			ATTGTGCAGA TAACACGTCT	
1701			GACCCTGAAT CTGGGACTTA	
1751			AGGTGATCCC TCCACTAGGG	
1801			CTGAACACCA GACTTGTGGT	
1851	<del>-</del>		GCTGAAGGAG CGACTTCCTC	
1901			CTGTGCACGC GACACGTGCG	
1951			TCTGACATTG AGACTGTAAC	
2001			GACCAACAAC CTGGTTGTTG	CTGTGGGGGA GACACCCCCT
2051			TCCTGGGCCT AGGACCCGGA	GTGAGGATGT CACTCCTACA
2101		_		GGAGCCCTTC CCTCGGGAAG
2151				AGCAGGCCTC TCGTCCGGAG
2201				CAGAATGCCA GTCTTACGGT
2251				TGCCACCCTG ACGGTGGGAC
2301	_			GTCACAAGGC CAGTGTTCCG
2351				GCCACCATCA

2401			GGAAGACAGT CCTTCTGTCA	
2451		 	AACTGTAGGG TTGACATCCC	
2501		 	CCACCAGATG GGTGGTCTAC	
2551		 	TCTGGCCCTC AGACCGGGAG	
2601		 	GAGCCCACAG CTCGGGTGTC	
2651		 	CACCCCAGC GTGGGGGTCG	
2701		 	CCTCCCTGAG GGAGGGACTC	
2751		 	GCCCGGGCAG CGGGCCCGTC	
2801			CCCTCCCCG GGGAGGGGGC	
2851		 	TTCCTAATAA AAGGATTATT	
2901		 	CTATTCTGGG GATAAGACCC	
2951		 	GACAATAGCA CTGTTATCGT	
3001	GGATGCGGTG CCTACGCCAC	 	CGCCGTACTG GCGGCATGAC	
3051		 	AGGTGGGGGT TCCACCCCA	
3101		 	CCATGAGCAC GGTACTCGTG	
3151		 	ACGCGCATGC TGCGCGTACG	

3201			CATTGATGGT GTAACTACCA	
3251	 		AGACCGTGTC TCTGGCACAG	
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3351	 	0	CCCGCTTGCA GGGCGAACGT	
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3451	 		GTTTCTCAGC CAAAGAGTCG	
3501	 		TTCCTCCCCT AAGGAGGGGA	
3551	 		TTTGGATTTG AAACCTAAAC	
3601	 		CGCGCGCGGT GCGCGCGCCA	
3651	 		TATTTTTCC ATAAAAAAGG	
3701	 		GCATAAGCCC CGTATTCGGG	
3751	 		TGCGGGGTGG ACGCCCCACC	
3801	 		GTGCCTAAAA CACGGATTTT	
3851			TGGTGTAAGT ACCACATTCA	
3901			GATATGAGAT CTATACTCTA	
3951	 		CATATCCCTC GTATAGGGAG	

4001				CGGTGCACTT GCCACGTGAA	
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4101				AATGATGGCA TTACTACCGT	
4151				GATCACTAAC CTAGTGATTG	
4201				TTTACAAAGC AAATGTTTCG	
4251				CGGCCCAGGG GCCGGGTCCC	
4301				GTTCAGATGG CAAGTCTACC	
4351				TCCGGGGTAG AGGCCCCATC	
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4451	GCCCGTAAAT	CACACCTATT	ACCGGCTGCA	ACTGGTAGTT TGACCATCAA	AAGAGAGCTG
4501	CAGCTGCCGT	CATCCCTGAG	CAGGGGGCC	ACTTCGTTAA TGAAGCAATT	GCATGTCCCT
4551	GACTCGCATG	TTTTCCCTGA	CCAAATCCGC	CAGAAGGCGC	TCGCCGCCCA
4601	GCGATAGCAG	TTCTTGCAAG	GAAGCAAAGT		TTTGAGACCG
4651	TCCGCCGTAG	GCATGCTTTT	GAGCGTTTGA		CCAGGCGGTC
4701				GGTTCGTCAA TCGATCCAGC	
<b>4</b> 751	GGTGTCGAGC GTTTCGCGGG			AGCTAGGTCG CGGCAGTAGT	
				GCCGTCATCA	

FIG. 10A-6

4801				GGCGCAGGGT CCGCGTCCCA	
4851				CCGGGCTGCG GGCCCGACGC	
4901				GAAGCGCTGC CTTCGCGACG	
4951				TGGTGTCATA ACCACAGTAT	
5001				CCCTTGGAGG GGGAACCTCC	<del>-</del>
5051				GAGCTTGGGC CTCGAACCCG	
5101				AGGCCCCGCA TCCGGGGCGT	
5151	_			TCGGGGTCAA AGCCCCAGTT	
5201				TCTGGTTTCC AGACCAAAGG	
5251				TGTCCCCGTA ACAGGGGCAT	
5301				TCCTCCTCGT AGGAGGAGCA	
5351	_			GGCCAGCACG CCGGTCGTGC	
5401	AGTGGGAGGG	GTAGCGGTCG	TTGTCCACTA		TCGCTCCAGG
5451	GTGTGAAGAC	ACATGTCGCC	CTCTTCGGCA		TGATTGGTTT
5501	GTAGGTGTAG	GCCACGTGAC	CGGGTGTTCC		CTATAAAAGG
5551	GGGTGGGGC	GCGTTCGTCC	TCACTCTCTT	CCGCATCGCT	GTCTGCGAGG
	CCCACCCCCG	DDADDAADD	AAUAUAU LUA	GGCGTAGCGA	CAGACGCTCC

5601		CTCCCTCTGA GAGGGAGACT	
5651		 AAAACGAGGA TTTTGCTCCT	
5701		GTGGCCGCAT CACCGGCGTA	
5751		GGTGGCAAAC CCACCGTTTG	
5801		GCAGGGTTTG CGTCCCAAAC	
5851		AGCTGCACGT TCGACGTGCA	
5901		GCGCTCGTCG CGCGAGCAGC	
5951		CAAGGTCAAC GTTCCAGTTG	
6001		CAGAGGCGGC GTCTCCGCCG	
6051		CGTCTCGTCC GCAGAGCAGG	
6101		GCGCGTCGAA CGCGCAGCTT	
6151		CATGCGCGGG GTACGCGCCC	
6201			CGGAGGCGTA GCCTCCGCAT
6251			ATTCCAAGAT TAAGGTTCTA
6301	ATGTAGGGTA TACATCCCAT		GTAATCGTAT CATTAGCATA
6351			TACGGGCGGG ATGCCCGCCC

6401	CTGCTCTGCT	CGGAAGACTA	TCTGCCTGAA	GATGGCATGT	GAGTTGGATG
				CTACCGTACA	
	GACGAGACGA	GCCIICIGMI	MONCOGNETI	C111000111011	0101110
C 4 E 4		1000000110	3.00mm03.3.00	macaaamamam	CACACCMACC
6451				TGGCGTCTGT	
	TATACCAACC	TGCGACCTTC	TGCAACTTCG	ACCGCAGACA	CTCTGGATGG
6501	GCGTCACGCA	CGAAGGAGGC	GTAGGAGTCG	CGCAGCTTGT	TGACCAGCTC
	СССАСТСССТ	GCTTCCTCCG	CATCCTCAGC	GCGTCGAACA	ACTGGTCGAG
	00011010001	0011001000	011100101100		
CE E 4	000000000000000000000000000000000000000	maaa aamama	GGGGGGA GMA	CMCC3 CCCMM	መሮሮመሞር አ ሞር አ
6551				GTCCAGGGTT	
	CCGCCACTGG	ACGTGCAGAT	CCCGCGTCAT	CAGGTCCCAA	AGGAACTACT
6601	TGTCATACTT	ATCCTGTCCC	TTTTTTTTCC	ACAGCTCGCG	GTTGAGGACA
	ACAGTATGAA	TAGGACAGGG	AAAAAAAAGG	TGTCGAGCGC	CAACTCCTGT
6651	<b>አ አ</b> ርጥርጥጥርርር	<b>ርርጥርጥጥጥርር</b> እ	<b>GTACTCTTGG</b>	ATCGGAAACC	ССТСССССТС
0031				TAGCCTTTGG	
	TTGAGAAGCG	CCAGAAAGGT	CATGAGAACC	TAGCCTTTGG	GCAGCCGGAG
6701		_		GTTGACGGCC	
	GCTTGCCATT	CTCGGATCGT	ACATCTTGAC	CAACTGCCGG	ACCATCCGCG
6751	AGCATCCCTT	TTCTACGGGT	AGCGCGTATG	CCTGCGCGGC	CTTCCGGAGC
				GGACGCGCCG	
	ICGIAGGAA	AMGRIGCCCA	ICGCGCMIMC	GOMEGEE	01210000100
co.o.4			0.0m0m000m0	3 CC 3 MC 3 CMM	max comx cmc
6801				ACCATGACTT	
	CTCCACACCC	ACTCGCGTTT	CCACAGGGAC	TGGTACTGAA	ACTCCATGAC
6851	GTATTTGAAG	TCAGTGTCGT	CGCATCCGCC	CTGCTCCCAG	AGCAAAAAGT
	CATAAACTTC	AGTCACAGCA	GCGTAGGCGG	GACGAGGGTC	TCGTTTTTCA
6901	acamacaaamm	mmmcc3 3 CCC	CC3 mmmCCC3	GGGCGAAGGT	これでながでにかがら
6901					
	GGCACGCGAA	AAACCTTGCG	CCTAAACCGT	CCCGCTTCCA	CTGTAGCAAC
6951	AAGAGTATCT	TTCCCGCGCG	AGGCATAAAG	TTGCGTGTGA	TGCGGAAGGG
	TTCTCATAGA	<b>AAGGGCGCGC</b>	TCCGTATTTC	AACGCACACT	ACGCCTTCCC
7001	тссссссъсс	<b>ТСССА АСССТ</b>	<b>ТСТТААТТАС</b>	СТССССССССС	AGCACGATCT
7001					TCGTGCTAGA
	AGGGCCGTGG	AGCCTTGCCA	ACAATTAATG	GACCCGCCGC	ICGIGCIAGA
7051				TGTAAAGTTC	
	GCAGTTTCGG	CAACTACAAC	ACCGGGTGTT	ACATTTCAAG	GTTCTTCGCG
7101	GGGATGCCCT	TGATGGAAGG	CAATTTTTTA	AGTTCCTCGT	AGGTGAGCTC
					TCCACTCGAG
	CCCIACGGGA	ACIACCIICC	O'LIMMANNI.	LULUNGUA	_ COMO I CONG
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7151					GCAAGATGAG
	AAGTCCCCTC	GACTCGGGCA	CGAGACTTTC	CCGGGTCAGA	CGTTCTACTC

7201		 	CACGGGCCAT GTGCCCGGTA	
7251		 	CCTATGGCCA GGATACCGGT	
7301		 	TTCCCAGCGG AAGGGTCGCC	
7351			CTAGAGGCTC GATCTCCGAG	
7401		 	TGCTTCCCAA ACGAAGGGTT	
7451		 	AAAGAGACGC TTTCTCTGCG	
7501		 	CCCGCCACCA GGGCGGTGGT	
7551		 	CTGCGACGGG GACGCTGCCC	
7601			CTGGCAGCGG GACCGTCGCC	
7651		 	CGCGCACAAG GCGCGTGTTC	
7701		 	GGCTGGTGGT CCGACCACCA	
7751			GAGGGGAGTT CTCCCCTCAA	
7801	GGACCACCAC CCTGGTGGTG		AGATGTCCGC TCTACAGGCG	
7851	CGGAGCTTGA GCCTCGAACT		GAGCTGTCCA CTCGACAGGT	
7901	CTCCCGCGGC GAGGGCGCCG		CTGCAGGTTT GACGTCCAAA	
7951	GACGGGTCAG CTGCCCAGTC		GATACCTAAT CTATGGATTA	

8001			AGGCCGCATC TCCGGCGTAG	
8051		 	CGCGGGGGTG GCGCCCCAC	
8101		 	CCCCGGAGGT GGGGCCTCCA	
8151			CGTCGGCGCC GCAGCCGCGG	
8201			GCGAACGCGA CGCTTGCGCT	
8251			GAAGACGACG CTTCTGCTGC	
8301		 	CAATTTCGGT GTTAAAGCCA	
8351	GCGGCCTGGC CGCCGGACCG		CCTGAGTTGT GGACTCAACA	
8401			CTCCTGGAGA GAGGACCTCT	
8451		 	TGGAAATGCG ACCTTTACGC	
8501			CAGACGCGGC GTCTGCGCCG	
8551			CACCTGCGCG GTGGACGCGC	
8601	CCACGTGCCG GGTGCACGGC	 	GCAGGCGCTG CGTCCGCGAC	
8651		 	AAGAAGTACA TTCTTCATGT	
8701		 	GGCCTCAAGG CCGGAGTTCC	
8751		 	ACTGGGAGTT TGACCCTCAA	GCGCGCCGAC CGCGCGGCTG

8801		AAGACGGATG TTCTGCCTAC	
8851		CAGGGGCCTC GTCCCCGGAG	
8901		TCTTCTTCTT AGAAGAAGAA	
8951		 GCGCACCGGG CGCGTGGCCC	
9001		GGCGCATGGT CCGCGTACCA	
9051		AAGACGCCGC TTCTGCGGCG	
9101		CGGCAGGGAT GCCGTCCCTA	
9151		CTCCGCCGCC GAGGCGGCGG	
9201		CTCTCGAGAA GAGAGCTCTT	
9251		CGTGGCGGC GCACCGCCCG	
9301		TGCTGATGAT ACGACTACTA	
9351		AGAAGCACCA TCTTCGTGGT	
9401	TGAATGCGCA ACTTACGCGT	CATGCCCCAG GTACGGGGTC	
9451	CAGGTCTTTG GTCCAGAAAC		ACTTCTTCTT TGAAGAAGAA
9501		TCTCTTGCAT AGAGAACGTA	GGCGGCGGCG
9551		CCCTCTTCCT GGGAGAAGGA	TGACCCCGAA ACTGGGGCTT

9601			 GGCGACAACG CCGCTGTTGC	_
9651	ATATGGCCTG TATACCGGAC		 ACTGGAAGTC TGACCTTCAG	
9701		GGTATGCGCC CCATACGCGG	 GTGTAAGTGC CACATTCACG	AGTTGGCCAT TCAACCGGTA
9751		TTAACGGTCT AATTGCCAGA	 CTGCGAGAGC GACGCTCTCG	TCGGTGTACC AGCCACATGG
9801			CGTAGTCGTT GCATCAGCAA	
9851		GGTATCCCAC CCATAGGGTG	 GGCGGCGGCT CCGCCGCCGA	GGCGGTAGAG CCGCCATCTC
9901		AGGGTGGCCG TCCCACCGGC	 GGCGAGATCT CCGCTCTAGA	TCCAACATAA AGGTTGTATT
9951			 TCCAGGTGAT AGGTCCACTA	
10001	<del>-</del>		 CGGTTCCAGA GCCAAGGTCT	
10051			 CTGGCCGGTC GACCGGCCAG	
10101	AATCGTTGAC TTAGCAACTG		 AGAGCCTGTA TCTCGGACAT	
10151			GGTATCATGG CCATAGTACC	
10201	GGGTTCGAGC CCCAAGCTCG		GTGATCCATG CACTAGGTAC	
10251	CCGCGTGTCG GGCGCACAGC		GACAACGGGG CTGTTGCCCC	
10301	TTTGGCTTCC AAACCGAAGG		 GCGCTAGCTT CGCGATCGAA	
10351	TGGCCGCGCG ACCGGCGCGC		GAAAGCGAAA CTTTCGCTTT	

10401				CCAAGGGTTG GGTTCCCAAC	
10451		GAGTCTCGGA CTCAGAGCCT		TGCGGCGAAC ACGCCGCTTG	
10501				TTCCTCCGGA AAGGAGGCCT	
10551				CGGTGCTGCG GCCACGACGC	
10601				CAGCGGCAGA GTCGCCGTCT	_
10651				GGCGACATCC CCGCTGTAGG	
10701				GCGCGGCCCG	
10751				CGGCTAGGAG GCCGATCCTC	
10801				TGATACGCGT ACTATGCGCA	
10851				AGGGAGAGGA TCCCTCTCCT	
10901				GAGCTGCGGC CTCGACGCCG	
10951				TGAGCCCGAC ACTCGGGCTG	
11001	GGATTAGTCC CCTAATCAGG			CCGCCGACCT GGCGGCTGGA	
11051	TACGAGCAGA ATGCTCGTCT			TTTCAAAAA AAAGTTTTT	
11101	CCACGTGCGT GGTGCACGCA		• • • • • • • • • • • • • • • • • • • •	GGTGGCTATA CCACCGATAT	
11151	ATCTGTGGGA TAGACACCCT			AAAACCCAAA TTTTGGGTTT	

11201	CTCATGGCGC	AGCTGTTCCT	TATAGTGCAG	CACAGCAGGG	ACAACGAGGC
		TCGACAAGGA			
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11251	አመሞሮ አሮሮሮ አሞ	GCGCTGCTAA	<b>АСАТАСТАСА</b>	GCCCGAGGGC	CGCTGGCTGC
11231		CGCGACGATT			
	TAAGTCCCTA	CGCGACGATT	IGIAICAICI	CGGGCTCCCG	000110001100
			a- a- aa	maamaa aa	CCCCACCTTC
11301		AAACATCCTG			
	AGCTAAACTA	TTTGTAGGAC	GTCTCGTATC	ACCACGTCCT	CGCGTCGAAC
11351		ACAAGGTGGC			
	TCGGACCGAC	TGTTCCACCG	GCGGTAGTTG	ATAAGGTACG	AATCGGACCC
11401	CAAGTTTTAC	GCCCGCAAGA	TATACCATAC	CCCTTACGTT	CCCATAGACA
	GTTCAAAATG	CGGGCGTTCT	ATATGGTATG	GGGAATGCAA	GGGTATCTGT
11451	AGGAGGTAAA	GATCGAGGGG	TTCTACATGC	GCATGGCGCT	GAAGGTGCTT
11431			AAGATGTACG	CGTACCGCGA	CTTCCACGAA
	ICCICCATII	CINGCICCOC			
11501	3.CCMMC3.CCC	ACGACCTGGG	ССФФФТАФССС	AACGAGCGCA	TCCACAAGGC
TTOOT		TGCTGGACCC			
	TGGAACTCGC	TGCTGGACCC	GCAAATAGCG	1160106031	Addiditeed
			6663 66E63 6	CONCOCCNO	CMCAMCCACA
11551		AGCCGGCGGC			
	GCACTCGCAC	TCGGCCGCCG	CGCTCGAGTC	GCTGGCGCTC	GACTACGTGT
11601	_	GGCCCTGGCT			
	CGGACGTTTC	CCGGGACCGA	CCGTGCCCGT	CGCCGCTATC	TCTCCGGCTC
11651		ACGCGGGCGC			
	AGGATGAAAC	TGCGCCCGCG	ACTGGACGCG	ACCCGGGGTT	CGGCTGCGCG
11701	CCTGGAGGCA	GCTGGGGCCG	GACCTGGGCT	GGCGGTGGCA	CCCGCGCGCG
		CGACCCCGGC			
	00::00:00-				
11751	СТСССААССТ	CGGCGGCGTG	GAGGAATATG	ACGAGGACGA	TGAGTACGAG
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44004	0010100100	0003 CM3 CM3	* CCCC#C*#C	<b>ጥጥሮጥሮልጥሮ</b> ል	GATGATGCAA
11801					CTACTACGTT
	GGTCTCCTGC	CGCTCATGAT	TCGCCACTAC	AAAGACIAGI	CIACIACGII
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11851					AGCCGTCCGG
	CTGCGTTGCC	TGGGCCGCCA	CGCCCGCCGC	GACGTCTCGG	TCGGCAGGCC
11901					ATCATGTCGC
	GGAATTGAGG	TGCCTGCTGA	. CCGCGGTCCA	GTACCTGGCG	TAGTACAGCG
11951					GGCCAACCGG
	ACTGACGCGC	GTTAGGACTG	CGCAAGGCCG	TCGTCGGCGT	CCGGTTGGCC

12001	CTCTCCGCAA	TTCTGGAAGC	GGTGGTCCCG	GCGCGCGCAA	ACCCCACGCA
				CGCGCGCGTT	
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12051				GGCCGAAAAC	
	GCTCTTCCAC	GACCGCTAGC	ATTTGCGCGA	CCGGCTTTTG	TCCCGGTAGG
12101	GGCCCGACGA	GGCCGGCCTG	GTCTACGACG	CGCTGCTTCA	GCGCGTGGCT
				GCGACGAAGT	
	CC000C10C1	CCCCCCCC	011011100100		
40454		GGGGGA 3 GGE	002020220	CTGGACCGGC	тестесесез
12151					
	GCAATGTTGT	CGCCGTTGCA	CGTCTGGTTG	GACCTGGCCG	ACCACCCCCT
12201	TGTGCGCGAG	GCCGTGGCGC	AGCGTGAGCG	CGCGCAGCAG	CAGGGCAACC
	ACACGCGCTC	CGGCACCGCG	TCGCACTCGC	GCGCGTCGTC	GTCCCGTTGG
12251	mccccmccam	CCTTCCACTA	ል ል ሮርሮሮጥጥሮሮ	TGAGTACACA	GCCCGCCAAC
12251				ACTCATGTGT	
	ACCCGAGGTA	CCAACGTGAT	TIGCGGAAGG	ACTCATGIGI	CGGGCGGIIG
12301				TTTGTGAGCG	
	CACGGCGCCC	CTGTCCTCCT	GATGTGGTTG	AAACACTCGC	GTGACGCCGA
12351	Δ Δ Τ C C T C Δ C T	GAGACACCGC	AAAGTGAGGT	GTACCAGTCT	GGGCCAGACT
12331				CATGGTCAGA	
	TIACCACIGA	CICIGIGGCG	IIICACICCA	CHICOLOM	00000101011
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12401				AGACCGTAAA	
	TAAAAAAGGT	CTGGTCATCT	GTTCCGGACG	TCTGGCATTT	GGACTCGGTC
12451	GCTTTCAAAA	ACTTGCAGGG	GCTGTGGGGG	GTGCGGGCTC	CCACAGGCGA
	CGAAAGTTTT	TGAACGTCCC	CGACACCCCC	CACGCCCGAG	GGTGTCCGCT
	00				
40504	00000000000000	OMOROWA OOM	maamaraaa	CAACTCGCGC	CTCTTCCTCC
12501					
	GGCGCGCTGG	CACAGATCGA	ACGACTGCGG	GTTGAGCGCG	GACAACGACG
12551	TGCTAATAGC	GCCCTTCACG	GACAGTGGCA	GCGTGTCCCG	GGACACATAC
	ACGATTATCG	CGGGAAGTGC	CTGTCACCGT	CGCACAGGGC	CCTGTGTATG
12601	で でなることである。	ТССТСАСАСТ	CTACCCCGAG	GCCATAGGTC	AGGCGCATGT
12001					TCCGCGTACA
	GATCCAGTGA	ACGACTGTGA	CATGGCGCIC	CGGIAICCAG	ICCGCGIACA
12651					GCGCTGGGGC
	CCTGCTCGTA	TGAAAGGTCC	TCTAATGTTC	ACAGTCGGCG	CGCGACCCCG
12701	AGGAGGACAC	GGGCAGCCTG	GAGGCAACCC	TAAACTACCT	GCTGACCAAC
					CGACTGGTTG
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12751					AGGAGGAGCG
	GCCGCCGTCT	TCTAGGGGAG	CAACGTGTCA	AATTTGTCGC	TCCTCCTCGC

12801	CATTTTGCGC	TACGTGCAGC	AGAGCGTGAG	CCTTAACCTG	ATGCGCGACG
12001				GGAATTGGAC	
	GTAAAACGCG	AIGCACGICG	ICICGCACIC	GOIDITTOOLO	
	_			~~~~~~~	G3 EGG3 3 GGC
12851	GGGTAACGCC			CCGCGCGCAA	
	CCCATTGCGG	GTCGCACCGC	GACCTGTACT	GGCGCGCGTT	GTACCTTGGC
12901	GGCATGTATG	CCTCAAACCG	GCCGTTTATC	AACCGCCTAA	TGGACTACTT
12301				TTGGCGGATT	
	CCGTACATAC	GGAGIIIGGC	CGGCAMING	11000001111	
					CCC3 MCMMC3
12951		GCCGCCGTGA			
	CGTAGCGCGC	CGGCGGCACT	TGGGGCTCAT	AAAGTGGTTA	CGGTAGAACT
13001	ACCCGCACTG	GCTACCGCCC	CCTGGTTTCT	ACACCGGGGG	ATTCGAGGTG
	тесесстемс	CGATGGCGGG	GGACCAAAGA	TGTGGCCCCC	TAAGCTCCAC
	10000010110	00111000000	•••••		
40054		3 CC3 MCC3 MM	COMOMOCO A C	GACATAGACG	ACAGCGTGTT
13051		ACGATGGATT		011011111111	
	GGGCTCCCAT	TGCTACCTAA	GGAGACCCTG	CTGTATCTGC	TGTCGCACAA
13101	TTCCCCGCAA	CCGCAGACCC	TGCTAGAGTT	GCAACAGCGC	GAGCAGGCAG
	AAGGGGCGTT	GGCGTCTGGG	ACGATCTCAA	CGTTGTCGCG	CTCGTCCGTC
12151	* 000000000	CCCAAACCAA	አርርጥጥርርርርል	GGCCAAGCAG	СТТСТСССАТ
13151				CCGGTTCGTC	
	TCCGCCGCGA	CGCTTTCCTT	TCGAAGGCGT	CCGGTTCGTC	GAACAGGCIA
13201		CGGCCCCGCG			TTCCAAGCTT
	GATCCGCGAC	GCCGGGGCGC	CAGTCTACGA	TCATCGGGTA	AAGGTTCGAA
13251	СУТУСССТСТ	CTTACCAGCA	CTCGCACCAC	CCGCCCGCGC	CTGCTGGGCG
13231	-	GAATGGTCGT			GACGACCCGC
	CIAICCCAGA	GAAIGGICGI	GAGCGIGGIG	000000000	0.100110000
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13301		CCTAAACAAC		AGCCGCAGCG	
	TCCTCCTCAT	GGATTTGTTG	AGCGACGACG	TCGGCGTCGC	GCTTTTTTG
13351	CTGCCTCCGG	CATTTCCCAA	CAACGGGATA	GAGAGCCTAG	TGGACAAGAT
				CTCTCGGATC	
	GACGG1100CC	01122100011	0110000		
40404	a. am. a. maa	3 3 C3 CCM3 CC	acai aca ca	CACCCACCTC	CCAGGCCCGC
13401					
	CTCATCTACC	TTCTGCATGC	GCGTCCTCGT	GTCCCTGCAC	GGTCCGGGCG
13451	GCCCGCCCAC	CCGTCGTCAA	AGGCACGACC	GTCAGCGGGG	TCTGGTGTGG
	CGGGCGGGTG	GGCAGCAGTT	TCCGTGCTGG	CAGTCGCCCC	AGACCACACC
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12501	03003003m0	3 CMCCCC3 C3	CGACAGCAGC	<b>Ċ</b> ጥĊĊጥĊĊ \\ \	TGGGAGGGAG
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	CTCCTGCTAC	TGAGCCGTCT	GCTGTCGTCG	CAGGACCTAA	ACCCTCCCTC
13551					ATGTTTTAAA
	ACCGTTGGGC	AAACGCGTGG	AAGCGGGGTC	CGACCCCTCT	TACAAAATTT

13601		GCATGATGCA CGTACTACGT		
13651		TTTCTTGTAT AAAGAACATA		
13701		CCTCCTCCCT GGAGGAGGGA		
13751		GCTGGGTTCT CGACCCAAGA		
13801		GGTACCTGCG CCATGGACGC		
13851		GCACCCCTAT CGTGGGGATA		
13901		GGATGTGGCA CCTACACCGT	 	
13951		CGGTCATTCA GCCAGTAAGT	TACAGCCCGG ATGTCGGGCC	
14001		ATCAATCTTG TAGTTAGAAC		
14051		GCATACCAAC CGTATGGTTG		
14101		AGGCGCGGGT TCCGCGCCCA		
14151		CTGAAATACG GACTTTATGC		
14201		GACCATGACC CTGGTACTGG		GATCGTGGAG CTAGCACCTC
14251		AAGTGGGCAG TTCACCCGTC		
14301	_	GACACCCGCA CTGTGGGCGT		
14351				TCCAGACATC AGGTCTGTAG

14401		CAGGATGCGG GTCCTACGCC		
14451		ATCCGCAAGC TAGGCGTTCG		
14501		TCTGGAGGGT AGACCTCCCA		
14551		CGAGCTTGAA GCTCGAACTT		
14601		AACAGCAGTG TTGTCGTCAC		
14651		AATGCAGCCG TTACGTCGGC		
14701		TTGCCACACG AACGGTGTGC	 	
14751		GCTGCCGCCC CGACGGCGGG		
14801		GGTGATCAAA CCACTAGTTT		
14851		TAAGCAATGA ATTCGTTACT		
14901		AACTACGGCG TTGATGCCGC		
14951		TCCTGACGTA AGGACTGCAT		
15001				CGCGCCAGAT GCGCGGTCTA
15051		CCGGTGGTGG GGCCACCACC		CACTCCAAGA GTGAGGTTCT
15101	GCTTCTACAA CGAAGATGTT			CCAGTTTACC GGTCAAATGG
15151				TTTTGGCGCG AAAACCGCGC

15201			CCACCGTCAG GGTGGCAGTC		
15251			CTGCGCAACA GACGCGTTGT		
15301			ACGCCGCACC TGCGGCGTGG		
15351			GCGTCCTATC CGCAGGATAG		
15401			CCCAGCAATA GGGTCGTTAT		
15 <b>451</b>			CGGGGCCAAG GCCCCGGTTC		
15501			ACCGCGCGCC TGGCGCGCGG		
15551			GTCGATGACG CAGCTACTGC		
15601			CACGCCGCCA GTGCGGCGGT		
15651	GGCCATTCAG	ACCGTGGTGC	GCGGAGCCCG CGCCTCGGGC	GCGCTATGCT	AAAATGAAGA
15701	GACGGCGGAG	GCGCGTAGCA	CGTCGCCACC GCAGCGGTGG	GCCGCCGACC	CGGCACTGCC
15751	GCCCAACGCG	CGGCGGCGGC		CGCGCACGTC	GCACCGGCCG
15801	ACGGGCGGCC	ATGCGGGCCG	CTCGAAGGCT	GGCCGCGGGT	ATTGTCACTG TAACAGTGAC
15851	TGCCCCCCAG	GTCCAGGCGA	CGAGCGGCCG	CCGCAGCAGC	CGCGGCCATT
15901	AGTGCTATGA	CTCAGGGTCG	CAGGGGCAAC	GTGTATTGGG	TGCGCGACTC
15951					ACGCGCTGAG CGCAACTAGA
	CCAATCGCCG	GACGCGCACG	GGCACGCGTG	GGCGGGGGC	GCGTTGATCT

16001				GTTGTATGTA CAACATACAT	
16051		ACGAAGCTAT TGCTTCGATA		AAAATCAAAG TTTTAGTTTC	
16101	ССУССТСУТС	GCGCCGGAGA	тстатесссс	CCCGAAGAAG	GAAGAGCAGG
10101		CGCGGCCTCT		•	CTTCTCGTCC
16151				AAAAGAAAAA	GAAAGATGAT
	TAATGTTCGG	GGCTTTCGAT	TTCGCCCAGT	TTTTCTTTT	CTTTCTACTA
16201	GATGATGAAC			CTGCACGCTA GACGTGCGAT	
16251				AAAACGTGTT	
	CGCTGCCCAT	GTCACCTTTC	CAGCTGCGCA	TTTTGCACAA	AACGCTGGGC
16301	GCACCACCGT	AGTCTTTACG	CCCGGTGAGC	GCTCCACCCG	CACCTACAAG
	CGTGGTGGCA	TCAGAAATGC	GGGCCACTCG	CGAGGTGGGC	GTGGATGTTC
16351	CGCGTGTATG	ATGAGGTGTA	CGGCGACGAG	GACCTGCTTG	AGCAGGCCAA
	GCGCACATAC	TACTCCACAT	GCCGCTGCTC	CTGGACGAAC	TCGTCCGGTT
16401				GCGGCATAAG	
	GCTCGCGGAG	CCCCTCAAAC	GGATGCCTTT	CGCCGTATTC	CTGTACGACC
16451	CGTTGCCGCT	GGACGAGGGC	AACCCAACAC	CTAGCCTAAA	GCCCGTAACA
	GCAACGGCGA	CCTGCTCCCG	TTGGGTTGTG	GATCGGATTT	CGGGCATTGT
16501	CTGCAGCAGG	TGCTGCCCGC	GCTTGCACCG	TCCGAAGAAA	AGCGCGGCCT
	GACGTCGTCC	ACGACGGGCG	CGAACGTGGC	AGGCTTCTTT	TCGCGCCGGA
16551				CGTGCAGCTG	
	TTTCGCGCTC	AGACCACTGA	ACCGTGGGTG	GCACGTCGAC	TACCATGGGT
16601	AGCGCCAGCG	ACTGGAAGAT	GTCTTGGAAA	AAATGACCGT	GGAACCTGGG
	TCGCGGTCGC	TGACCTTCTA	CAGAACCTTT	TTTACTGGCA	CCTTGGACCC
16651	CTGGAGCCCG	AGGTCCGCGT	GCGGCCAATC	AAGCAGGTGG	CGCCGGGACT
	GACCTCGGGC	TCCAGGCGCA	CGCCGGTTAG	TTCGTCCACC	GCGGCCCTGA
16701	GGGCGTGCAG	ACCGTGGACG	TTCAGATACC	CACTACCAGT	AGCACCAGTA
	CCCGCACGTC	TGGCACCTGC	AAGTCTATGG	GTGATGGTCA	TCGTGGTCAT
16751	TTGCCACCGC	CACAGAGGGC	ATGGAGACAC	AAACGTCCCC	GGTTGCCTCA
	AACGGTGGCG	GTGTCTCCCG	TACCTCTGTG	TTTGCAGGGG	CCAACGGAGT

16801	сссстсссс	ATGCCGCGGT	GCAGGCGGTC	GCTGCGGCCG	CGTCCAAGAC
10001				CGACGCCGGC	
	CGCCACCGCC	IACGGCGCCA	CGICCGCCAG	COLCOCOCO	•••••
		~=~~\\	3.00000003.T		TCAGCCCCCC
16851				GTTTCGCGTT	
	GAGATGCCTC	CACGTTTGCC	TGGGCACCTA	CAAAGCGCAA	AGTCGGGGGG
16901	GGCGCCCGCG	CCGTTCGAGG	AAGTACGGCG	CCGCCAGCGC	GCTACTGCCC
	CCGCGGGCGC	GGCAAGCTCC	TTCATGCCGC	GGCGGTCGCG	CGATGACGGG
16951	GAATATGCCC	TACATCCTTC	CATTGCGCCT	ACCCCCGGCT	ATCGTGGCTA
				TGGGGGCCGA	
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17001	ON COMN COCO	CCCACAACAC	САССААСТАС	CCGACGCCGA	ACCACCACTG
17001				GGCTGCGGCT	
	GTGGATGGCG	GGGTCTTCTG	CTCGTTGATG	GGC1GCGGC1	IGGIGGIGAC
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17051				CCGTGCTGGC	
	CTTGGGCGGC	GGCGGCAGCG	GCAGCGGTCG	GGCACGACCG	GGGCTAAAGG
17101	GTGCGCAGGG	TGGCTCGCGA	AGGAGGCAGG	ACCCTGGTGC	TGCCAACAGC
	CACGCGTCCC	ACCGAGCGCT	TCCTCCGTCC	TGGGACCACG	ACGGTTGTCG
17151	CCCCTACCAC	CCCAGCATCG	TTTAAAAGCC	GGTCTTTGTG	GTTCTTGCAG
1/1/1				CCAGAAACAC	CAAGAACGTC
	CGCGAIGGIG	GGGICGIAGC	India i i i i i i i i i i i i i i i i i i	0011011110110	U.L.
4.5004		03.00m00000		CGGTGCCGGG	አጥጥሮሮሮልሮሮል
17201					
	TATACCGGGA	GTGGACGCC	GAGGCAAAGG	GCCACGGCCC	TAAGGCTCCT
17251	AGAATGCACC			CACGGCCTGA	
	TCTTACGTGG	CATCCTCCCC	GTACCGGCCG	GTGCCGGACT	GCCCGCCGTA
17301	GCGTCGTGCG	CACCACCGGC	GGCGGCGCGC	GTCGCACCGT	CGCATGCGCG
	CGCAGCACGC	GTGGTGGCCG	CCGCCGCGCG	CAGCGTGGCA	GCGTACGCGC
17351	ССССТАТССТ	GCCCCTCCTT	ATTCCACTGA	TCGCCGCGGC	GATTGGCGCC
1/331				AGCGGCGCCG	
	CGCCAIAGGA	CGGGGAGGAA	IMAGIONCI	11000000000	0 1111100000
4-444			CCCCMMCC3.C	CCCCACACAC	አርምር አጥጥ አ አ
17401				GCGCAGAGAC	
	CACGGGCCTT	AACGTAGGCA	CCGGAACGTC	CGCGTCTCTG	TGACTAATTT
17451				AAAGTCTGGA	
	TTGTTCAACG	TACACCTTTT	TAGTTTTATT	TTTCAGACCT	GAGAGTGCGA
17501	CGCTTGGTCC	TGTAACTATT	TTGTAGAATG	GAAGACATCA	ACTTTGCGTC
				CTTCTGTAGT	
			3		
17551	тетесесес	CCACACCCC	רפרפרפרפיייי	CATGGGAAAC	TGGCAAGATA
TISST				GTACCCTTTG	
	AGACCGGGGC	GCTGTGCCGA	GCGCGGGCAA	GIACCCIIIG	ACCGLICIAL

17601		_	TCAGCTGGGG AGTCGACCCC	
17651			 AAGAACTATG TTCTTGATAC	
17701			GGATAAGTTG CCTATTCAAC	
17751			CCTCTGGCAT GGAGACCGTA	
17801			AAGATTAACA TTCTAATTGT	
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18051			CCCCGCCGA GGGGGCGGCT	
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18251			TAGCTAACGT ATCGATTGCA	GTCGTATGTG CAGCATACAC
18301	TGTCATGTAT ACAGTACATA		GGAGCTGCTG CCTCGACGAC	
18351				AGTGGTCTTA TCACCAGAAT

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18451	_			TCAGCCTGAA AGTCGGACTT	
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18551				CCGTGAGGAT GGCACTCCTA	
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18651				GTGCTGGACA CACGACCTGT	
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18751		TTGCGAATGG AACGCTTACC		CTACTGCTCT GATGACGAGA	TGAAATAAAC ACTTTATTTG
18801		AGGACGATGA TCCTGCTACT		GAAGTAGACG CTTCATCTGC	AGCAAGCTGA TCGTTCGACT
18851				GCCTTATTCT CGGAATAAGA	
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	301010101	TATAAAGAAT			
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19451	CCACAAGAAC	GCCCGGTTCG	TAGCGTCAAC	TTTGCTTGAT	ATCTAAACGT TCCATTGGTG
19451	TCTGTCTTTG			AAACGAACTA	
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19551		GAATTATTGA CTTAATAACT	AAATCATGGA TTTAGTACCT	ACTGAAGATG TGACTTCTAC	AACTTCCAAA TTGAAGGTTT
19601		CCACTGGGAG GGTGACCCTC			
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		TTGTCCAGTC			ACGATGTCTT
19701	TTTTCAGATA AAAAGTCTAT	AAAATGAAAT TTTTACTTTA	AAGAGTTGGA TTCTCAACCT		CCATGGAAAT GGTACCTTTA
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19951					CCTGCGCTAC GGACGCGATG

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20051	GCCTCAGAAG	TTCTTTGCCA	TTAAAAACCT	CCTTCTCCTG	CCGGGCTCAT
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	AGGGATCCTT	TACTGGATTC	CCAACTGCCT	CGGTCGTAAT	TCAAACTATC
20201	CATTTGCCTT	TACGCCACCT	TCTTCCCCAT	GGCCCACAAC	ACCGCCTCCA
	GTAAACGGAA	ATGCGGTGGA	AGAAGGGGTA	CCGGGTGTTG	TGGCGGAGGT
20251	CGCTTGAGGC	CATGCTTAGA	AACGACACCA	ACGACCAGTC	CTTTAACGAC
	GCGAACTCCG	GTACGAATCT	TTGCTGTGGT	TGCTGGTCAG	GAAATTGCTG
20301	TATCTCTCCG	CCGCCAACAT	GCTCTACCCT	ATACCCGCCA	ACGCTACCAA
	ATAGAGAGGC	GGCGGTTGTA	CGAGATGGGA	TATGGGCGGT	TGCGATGGTT
20351	CGTGCCCATA	TCCATCCCCT	CCCGCAACTG	GGCGGCTTTC	CGCGGCTGGG
	GCACGGGTAT	AGGTAGGGGA	GGGCGTTGAC	CCGCCGAAAG	GCGCCGACCC
20401	CCTTCACGCG	CCTTAAGACT	AAGGAAACCC	CATCACTGGG	CTCGGGCTAC
	GGAAGTGCGC	GGAATTCTGA	TTCCTTTGGG	GTAGTGACCC	GAGCCCGATG
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	CTGGGAATAA	TGTGGATGAG	ACCGAGATAT	GGGATGGATC	TACCTTGGAA
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	AATGGAGTTG	GTGTGGAAAT	TCTTCCACCG	GTAATGGAAA	CTGAGAAGAC
,					
20551	TCAGCTGGCC	TGGCAATGAC	CGCCTGCTTA	CCCCCAACGA	GTTTGAAATT
	AGTCGACCGG	ACCGTTACTG	GCGGACGAAT	GGGGGTTGCT	CAAACTTTAA
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	TTCGCGAGTC	AACTGCCCCT	CCCAATGTTG	CAACGGGTCA	CATTGTACTG
20651	CAAAGACTGG	TTCCTGGTAC	AAATGCTAGC	TAACTATAAC	ATTGGCTACC
	GTTTCTGACC	AAGGACCATG	TTTACGATCG	ATTGATATTG	TAACCGATGG
20701	AGGGCTTCTA	TATCCCAGAG	AGCTACAAGG	ACCGCATGTA	CTCCTTCTTT
	TCCCGAAGAT	ATAGGGTCTC	TCGATGTTCC	TGGCGTACAT	GAGGAAGAAA
20751	AGAAACTTCC	AGCCCATGAG	CCGTCAGGTG	GTGGATGATA	CTAAATACAA
	TCTTTGAAGG	TCGGGTACTC	GGCAGTCCAC	CACCTACTAT	GATTTATGTT

20801			TCCTACACCA AGGATGTGGT		
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			GTTCTGGCGT		
20951			CCCTTTGGCG GGGAAACCGC		
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21451	AACATGCTAC TTGTACGATG				CGACTCAAGC GCTGAGTTCG
21501	AGGTTTACCA	GTTTGAGTAC	GAGTCACTCC	TGCGCCGTAG	CGCCATTGCT GCGGTAACGA
21551	TCTTCCCCCG	ACCGCTGTAT	AACGCTGGAA	AAGTCCACCC	AAAGCGTACA TTTCGCATGT

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21951		 	GGTTCTGCCG CCAAGACGGC	
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22051		 	GGTGAAGTTT CCACTTCAAA	
22101		 	GGTCGGGCGC CCAGCCCGCG	
22151			CGCGAGTTGC GCGCTCAACG	
22201	GTTGCAGCAC CAACGTCGTG	 	GTGGTGCACG CACCACGTGC	
22251	CGCTCTTGTC GCGAGAACAG		GGTCCTCCGC CCAGGAGGCG	
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22401			TAAAAGCCTT ATTTTCGGAA	
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22551		 	GGCCCCACCG CCGGGGTGGC	000
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23051	ACCGTAATTT TGGCATTAAA		TCTTCCTCTT AGAAGGAGAA	
23101			ATTCAGCCGC TAAGTCGGCG	
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23201			TCCTCGCTGT AGGAGCGACA	
23251			AGAAGGGCGC TCTTCCCGCG	
23301			AGGTCGATGG TCCAGCTACC	
23351			GAGTCTTCCT CTCAGAAGGA	
23401	-		GGGCGCCCGG	
23451			TGGTTGGGGG ACCAACCCCC	
23501			CGCTGCTCCT GCGACGAGGA	
23551			GATCATGGAG CTAGTACCTC	
23601	•		TCGCCACCAC AGCGGTGGTG	
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23701			AGGTTTTGTA TCCAAAACAT	
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23851	CTACCTAGAT GATGGATCTA	 	GAAGCATCTG CTTCGTAGAC	
23901	GCGCCATTAT CGCGGTAATA	 	GCAGCGATGT CGTCGCTACA	
23951	ATAGCGGATG TATCGCCTAC			CACCGCGCGT GTGGCGCGCA

24001	ACCCCCCAAA	CGCCAAGAAA	ACGGCACATG	CGAGCCCAAC	CCGCGCCTCA
		GCGGTTCTTT			
	199999111	GCGGIICIII	IGCCGIGIAC	001000110	000000001
24051		CGTATTTGCC			
	TGAAGATGGG	GCATAAACGG	CACGGTCTCC	ACGAACGGTG	GATAGTGTAG
24101	ጥጥጥጥጥር ላ አ አ	ACTGCAAGAT	ልሮሮሮሮሞልሞሮሮ	тессетесса	ACCGCAGCCG
24101					
	AAAAAGGTTT	TGACGTTCTA	TGGGGATAGG	ACGGCACGGT	TGGCGTCGGC
24151	AGCGGACAAG	CAGCTGGCCT	TGCGGCAGGG	CGCTGTCATA	CCTGATATCG
	TCGCCTGTTC	GTCGACCGGA	ACGCCGTCCC	GCGACAGTAT	GGACTATAGC
24201	CCMCCCMCXX	CGAAGTGCCA	እ እ እ እ ጥርጥጥጥር	х СССТСТТСС	ACCCCACCAC
24201					
	GGAGCGAGTT	GCTTCACGGT	TTTTAGAAAC	TCCCAGAACC	TGCGCTGCTC
24251	AAGCGCGCGG	CAAACGCTCT	GCAACAGGAA	AACAGCGAAA	ATGAAAGTCA
	TTCGCGCGCC	GTTTGCGAGA	CGTTGTCCTT	TTGTCGCTTT	TACTTTCAGT
24301		TTGGTGGAAC	TO CA COOTECA	CAACCCCCCC	СТАССССТАС
24301					
	GAGACCTCAC	AACCACCTTG	AGCTCCCACT	GTTGCGCGCG	GATCGGCATG
24351	TAAAACGCAG	CATCGAGGTC	ACCCACTTTG	CCTACCCGGC	ACTTAACCTA
	ATTTTGCGTC	GTAGCTCCAG	TGGGTGAAAC	GGATGGGCCG	TGAATTGGAT
04404	000000000000	TCATGAGCAC	3 CMC 3 MC 3 CM	O A COMO A MOO	maacacaamaa
24401					
	GGGGGGTTCC	AGTACTCGTG	TCAGTACTCA	CTCGACTAGC	ACGCGGCACG
24451	GCAGCCCCTG	GAGAGGGATG	CAAATTTGCA	AGAACAAACA	GAGGAGGCC
	CGTCGGGGAC	CTCTCCCTAC	GTTTAAACGT	TCTTGTTTGT	CTCCTCCCGG
	00100000	01010001110	0111111111		
0.4504		TGGCGACGAG	G3 GGB3 GGGG	CCMCCCMMC3	******
24501					
	ATGGGCGTCA	ACCGCTGCTC	GTCGATCGCG	CGACCGAAGT	TTGCGCGCTC
24551	CCTGCCGACT	TGGAGGAGCG	ACGCAAACTA	ATGATGGCCG	CAGTGCTCGT
		ACCTCCTCGC			
	001100001011	11001001000			
				~~~~~~~~~	0000101m00
24601					CCGGAGATGC
	ATGGCACCTC	GAACTCACGT	ACGTCGCCAA	GAAACGACTG	GGCCTCTACG
24651	AGCGCAAGCT	AGAGGAAACA	TTGCACTACA	CCTTTCGACA	GGGCTACGTA
		TCTCCTTTGT			
	10GCG11CGA	1010011131	TOIMUICIE.		
0.4504			a aa=aa: a	amamaa	maamamaam:
					TGGTCTCCTA
	GCGGTCCGGA	CGTTCTAGAG	GTTGCACCTC	GAGACGTTGG	ACCAGAGGAT
24751	CCTTGGAATT	TTGCACGAAA	ACCGCCTTGG	GCAAAACGTG	CTTCATTCCA
					GAAGTAAGGT
	GORACCIIAA	WCGIGCIII	LUGUGGAACC	COLLIGER	James Land I

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25401	CGGCTCCGGG GCCGAGGCCC				GGCTTACCTT CCGAATGGAA
25451				CACGAGATTA GTGCTCTAAT	GGTTCTACGA CCAAGATGCT
25501	AGACCAATCC TCTGGTTAGG			TACCGCCTGC ATGGCGGACG	
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25601			TTGGACCCCC AACCTGGGGG	
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25951		 	CACTGCCCGT GTGACGGGCA	
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26501	CCCGCAGCTG GGGCGTCGAC	CCTGTATCAC GGACATAGTG		ATCAGCTTCG TAGTCGAAGC	
26551		AGGCTCTCTT TCCGAGAGAA			0-0
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26951	CCACTGTGGT	ACTTCCCAGA TGAAGGGTCT	GACGCCCAGG	CCGAAGTTCA	GATGACTAAC
27001	TCAGGGGCGC		CGGCTTTCGT	CACAGGGTGC	GGTCGCCCGG
27051	GCAGGGTATA	ACTCACCTGA	CAATCAGAGG	GCGAGGTATT	CAGCTCAACG
27101	ACGAGTCGGT		CTTGGTCTCC	GTCCGGACGG	GACATTTCAG
27151	ATCGGCGGCG		TTCATTCACG	CCTCGTCAGG	CAATCCTAAC
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27251		 •	ACTTTAACCC TGAAATTGGG	
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27401		 	GCCACAAGTG CGGTGTTCAC	
27451			CCCGAGGATC GGGCTCCTAG	
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	TTGTCCTCCA	CTCGAATCTT	TTGGGAATCC	CATAATCCGG	TTTCCGCGTC
28051	СТАСТСТССС	GTTTATGAAC	AATTCAAGCA	ACTCTACGGG	CTATTCTAAT
20031	_			TGAGATGCCC	
	GAIGACACCC	CMMIACITO	11MO11CO1	1011011110000	
28101	max commmon	CHACAARCCC	CCTTCCCCTT	ATTCTCTGTC	<b>ጥጥርጥር እጥጥርጥ</b>
20101				TAAGAGACAG	
	AGTCCAAAGA	GATCTTAGCC	CCAACCCCAA	IAAGAGACAG	AACACIAAGA
00454		* # * C # * * C C C	mmomomooom	3 3 CCCMCCCC	CCCTCCTCTC
28151				AAGGCTCGCC	
	GAAATAAGAA	TATGATTGCG	AAGAGACGGA	TTCCGAGCGG	CGGACGACAC
					maaaaa aaaa
28201		<del>-</del>		AACGCTGGGG	
	ACGTGTAAAC	GTAAATAACA	GTCGAAAAAT	TTGCGACCCC	AGCGGTGGGT
28251	AGATGATTAG	<b></b>		TCACCCTTGC	
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28301	GGTACCACCC	AAAAGGTGGA	TTTTAAGGAG	CCAGCCTGTA	
	CCATGGTGGG	TTTTCCACCT	AAAATTCCTC	GGTCGGACAT	TACAATGTAA
28351	CGCAGCTGAA	GCTAATGAGT	GCACCACTCT	TATAAAATGC	ACCACAGAAC
	GCGTCGACTT	CGATTACTCA	CGTGGTGAGA	ATATTTTACG	TGGTGTCTTG
28401	ATGAAAAGCT	GCTTATTCGC	CACAAAAACA	AAATTGGCAA	GTATGCTGTT
	TACTTTTCGA	CGAATAAGCG	GTGTTTTTGT	TTTAACCGTT	CATACGACAA
•					
28451	TATGCTATTT	GGCAGCCAGG	TGACACTACA	GAGTATAATG	TTACAGTTTT
	ATACGATAAA	CCGTCGGTCC	ACTGTGATGT	CTCATATTAC	AATGTCAAAA
28501	CCAGGGTAAA	AGTCATAAAA	CTTTTATGTA	TACTTTTCCA	TTTTATGAAA
				ATGAAAAGGT	
	001000				
28551	тстсссасат	<b>ТАССАТСТАС</b>	ATGAGCAAAC	AGTATAAGTT	GTGGCCCCCA
20331				TCATATTCAA	
	ACACGCIGIA	AIGGIACAIG	INCICOTITO	101111111111111111111111111111111111111	0.1.00000000
20601	C	TCCD A A A CAC	ጥርርር አርጥጥጥር	<b>ጥ</b> ርርጥርር <b>እ</b> ርጥር	CTATGCTAAT
28001	_				GATACGATTA
	GTTTTAACAC	ACCITITIGIG	ACCGIGAAAG	ACGACGIGAC	GAIACGAIIA
20654	ma (1) (moore)	COMMECOMOM	CM3 CCCM3 CM	<i>C</i> M2M2MM222	TACAAAAGCA
28651					
	ATGTCACGAG	CGAAACCAGA	CATGGGATGA	GATATAATTT	ATGTTTTCGT
					ma a Omma Ca a
28701					TAAGTTACAA
	CTGCGTCGAA	ATAACTCCTT	TTCTTTTACG	GAATTAAATG	ATTCAATGTT
28751					AACAAATTCA
•	TCGATTACAG	TGGTGATTGA	CGAAATGAGC	GACGAACGTT	TTGTTTAAGT

28801			GAATAGGATT CTTATCCTAA		
28851		CATTCCCCTG GTAAGGGGAC	AACAATTGAC TTGTTAACTG	TCTATGTGGG AGATACACCC	
28901		• <del>•</del>	GGCTTCCTGG CCGAAGGACC		
28951			TTGTTCCAGT AACAAGGTCA		
29001			ACCAACGCGG TGGTTGCGCC		
29051			AGTTTCTGCC TCAAAGACGG		
29101	0		CCATAGCGCT GGTATCGCGA		
29151			CTAAAGCGCA GATTTCGCGT		
29201			ACACCCAAAC TGTGGGTTTG		TCCATAGATT AGGTATCTAA
29251			TCTTTTCTCT AGAAAAGAGA		TTAAATGAGA AATTTACTCT
29301		• • • • • • • • • • • • • • • • • • • •	TATTACTGAC ATAATGACTG		
29351			GTTTCTCACA CAAAGAGTGT		
29401	GCCTTCACAG CGGAAGTGTC		TTACGGATTT AATGCCTAAA		
29451	CAGCCTCATC GTCGGAGTAG		TCGCCTTTAT AGCGGAAATA		
29501	GTGTGCGCTT CACACGCGAA		AGACACCATC TCTGTGGTAG		
29551	ATAGCTGAGC TATCGACTCG				TGTGACTTTT ACACTGAAAA

	•				
29601		TTTGCACCCT			
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34741 atcacctcat ttacatattg gcaccattcc atctataagg tatattattg atgatg
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Vaccine Vaccine		Monkey	nkey Pre		T=4 wks		T=8 wks		T=24 wks		T=28 wks		T=32 wks	
T=0, 4 wks	T=24 wks	ID	Mock	Gag*	Mock	Gag	Mock	Gag	Mock	Gag	Mock	Gag	Mock	Gag
Ad34∆E1gag∆E4Ad5Orf6, 10^11 vp	Ad35∆E1gag∆E4Ad5Orf6, 10^10 vp	00D016	4	8	1	84	5	334	5	99	0	306	3	244
Ad34AE1gagAE4Ad5Orf6, 10^11 vp	Ad35AE1gagAE4Ad5Orf6, 10^10 vp	00D044	1	1	8	79	٥	374	8	136	٥	493	1	253
Ad34AE1gagAE4Ad5Orf6, 10^11 vp	Ad35AE1gagAE4Ad5Orf6, 10^10 vp	00D064	4	6	1	125	8	655	6	145	٥	351	1	236
-														
Naïve		00D087	1	1	3	3	8	54	В	8	5	5	3	0

Vaccine (T=0, 4 Wks)	Vaccine (T=24 Wk)	Monkey		D4*CD3* mphocytes	IFN-γ*CD8*CD3* per 10 ⁶ Lymphocytes		
		ID	Mock	Gag	Mock	Gag	
Ad34AE1gagAE4Ad5Orf6, 10^11 vp	Ad35ΔE1gagΔE4Ad5Orf6, 10^10 vp	00D016	62	433	176	1288	
Ad34∆E1gag∆E4Ad5Orf6, 10^11 vp	Ad35∆E1gag∆E4Ad5Orf6, 10^10 vp	00D044	136	593	323	1871	
Ad34∆E1gag∆E4Ad5Orf6, 10^11 vp	Ad35ΔE1gagΔE4Ad5Orf6, 10^10 vp	00D064	188	785	292	992	